Notice of Allowability	Application No.	Applicant(s)	
	10/622,107	HOSONO, KATSUAKI	
	Examiner	Art Unit	
	Theresa Trieu	3748	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm CIGHTS. This application is:	n this application. If not included unication will be mailed in due course. The	-IIS itiativ
1. $\boxtimes$ This communication is responsive to <u>the IDS filed on Feb.</u>	<u>21, 2006</u> .		
2. The allowed claim(s) is/are <u>1-5,7-12,14-19 and 21-30</u> .			
3. $\boxtimes$ The drawings filed on <u>16 July 2003</u> are accepted by the E	xaminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	on No	he
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			=
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") mu <ul> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR reach sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the standard paper attached Examiner's comment regarding REQUIREMENT</li> </ul> </li> </ul>	son's Patent Drawing Review  's Amendment / Comment on the header according to 37 Closit of BIOLOGICAL MAT	r in the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the	
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date Feb. 21, 2006</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview S Paper No. 08), 7. ☑ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment  Statement of Reasons for Allowance	
		Theresa Trieu Primary Examiner Art Unit: 3748	

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## **EXAMINER'S AMENDMENT**

This Office Action is responsive to the IDS filed on February 21, 2006.

Claims 1, 8 and 15 have been amended. Claims 6, 13 and 20 have been canceled. Accordingly, claims 1-5, 7-12, 14-19 and 21-30 are pending in this application (see Claims section filed on April 5, 2005).

## Election/Restrictions

The election of the species of Figures 1-3 filed on October 26, 2004 is acknowledged; however, rendered moot in view of the allowance of a generic claim. Accordingly, the restriction requirement mailed on September 28, 2004 is hereby withdrawn. In view of the allowance of the generic claims 1, 8 and 15, non-elected claims 3-5, 7, 10-12, 14, 17-19 and 21 have been rejoined with their base claims. Claims 1-5, 7-12, 14-19 and 21-30 are allowed.

### Claims

Authorization for this examiner's amendment was given in a telephone interview with Mr. Louis J. Del Juidice (Reg. No. 47,522) on June 27, 2005. During telephone conversation with Mr. Del Juidice, an agreement was reached to amend Claims 7, 14 and 21. The application has been amended as follows:

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- Claim 7: page 4, line 1, "claim 6" has been changed to -- claim 1--.
- Claim 14: page 6, line 1, "claim 13" has been changed to -- claim 8--.

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- Claim 21: page 9, line 1, "claim 20" has been changed to -- claim 15--.

The amendment to the claims has been entered to correct a typographical error.

# Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the prior art fails to disclose or render obvious the claimed combination including the tooth tip profile of each of at least one of external teeth of an inner rotor and internal teeth of an outer rotor; the inner/outer rotor being formed such that a base epicycloids/hypocycloid (cycloid) curve is divided at a midpoint thereof to obtain two inner/outer tooth curve segments, and the two inner/outer tooth curve segments being separated by a predetermined distance along the circumference of a base circle or in the direction of a tangent of the base cycloid curve drawn at the midpoint thereof and being smoothly connected to each other using a curve or a straight line; and wherein the predetermined distance between the two tooth curve segments being " $\alpha$ ", and the tip clearance being "t", " $\alpha$ " being set so as to satisfy the following inequalities:  $t/4 \le \alpha \le 3t/4$  and  $t/4 \le \beta \le 3t/4$ .

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should-preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Prior Art

The IDS (PTO-1449) filed on February 21, 2006 has been considered. An initialized copy is attached hereto.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Theresa Trieu whose telephone number is 571-272-4868. The

examiner can normally be reached on Monday-Friday 8:30am- 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TT

May 24, 2006

Theresa Trieu

Primary Examiner

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